

Nuno Av Simões

List of Publications by Year in descending order

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85
papers

1,011
citations

489802

18
h-index

563245

28
g-index

85
all docs

85
docs citations

85
times ranked

962
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory assessment of the hygrothermal performance of an external vacuum-insulation composite system. <i>Energy and Buildings</i> , 2022, 254, 111549.	3.1	3
2	Study of the edge thermal bridging effect in vacuum insulation panels: Steady and unsteady-state approaches using numerical and experimental methods. <i>Energy and Buildings</i> , 2022, 258, 111821.	3.1	7
3	Key drivers of life-cycle environmental and cost assessment of windows for different European climate zones. <i>Journal of Building Engineering</i> , 2022, 50, 104206.	1.6	4
4	Environmental and cost life-cycle approach to support selection of windows in early stages of building design. <i>Journal of Cleaner Production</i> , 2022, 363, 132624.	4.6	7
5	Comparative life cycle assessment of different vacuum insulation panel core materials using a cradle to gate approach. <i>Building and Environment</i> , 2021, 188, 107501.	3.0	28
6	Embodied impacts of window systems: A comparative assessment of framing and glazing alternatives. <i>Journal of Building Engineering</i> , 2021, 35, 102042.	1.6	11
7	Can vacuum insulation panels be cost-effective when applied in building façades?. <i>Building and Environment</i> , 2021, 191, 107602.	3.0	12
8	3D printing in the construction industry - A systematic review of the thermal performance in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110794.	8.2	88
9	Canopy contribution to the energy balance of a building's roof. <i>Energy and Buildings</i> , 2021, 244, 111000.	3.1	6
10	Onsite monitoring of ETICS comparing different exposure conditions and insulation materials. <i>Journal of Building Engineering</i> , 2021, 42, 103067.	1.6	5
11	Application of smart readiness indicator for Mediterranean buildings in retrofitting actions. <i>Energy and Buildings</i> , 2021, 249, 111173.	3.1	20
12	Energy performance of solar and Trombe walls in Mediterranean climates. <i>Energy</i> , 2021, 234, 121197.	4.5	42
13	Onsite monitoring of a wall retrofitted with an external vacuum insulation composite system. <i>Journal of Building Engineering</i> , 2021, 44, 103301.	1.6	3
14	Integrated environmental, energy and cost life-cycle analysis of windows: Optimal selection of components. <i>Building and Environment</i> , 2021, 188, 107516.	3.0	12
15	Low-Emissivity Window Films as an Energy Retrofit Option for a Historical Stone Building in Cold Climate. <i>Energies</i> , 2021, 14, 7584.	1.6	18
16	A review of the challenges posed by the use of vacuum panels in external insulation finishing systems. <i>Applied Energy</i> , 2020, 257, 114028.	5.1	65
17	Auto-responsive technologies for thermal renovation of opaque facades. <i>Energy and Buildings</i> , 2020, 217, 109968.	3.1	9
18	Comparison between cork-based and conventional green roof solutions. <i>Building and Environment</i> , 2020, 175, 106812.	3.0	13

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19	Detecting urban water consumption patterns: a time-series clustering approach. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 2323-2329.	1.0	5
20	Procedure to select combined heating and hot water systems: An expeditious cost optimality approach. <i>Journal of Building Engineering</i> , 2019, 25, 100838.	1.6	3
21	Thermal behaviour of a green roof containing insulation cork board. An experimental characterization using a bioclimatic chamber. <i>Building and Environment</i> , 2019, 160, 106179.	3.0	24
22	Drainage and water storage capacity of insulation cork board applied as a layer on green roofs. <i>Construction and Building Materials</i> , 2019, 209, 52-65.	3.2	26
23	3D Dynamic Simulation of Heat Conduction through a Building Corner Using a BEM Model in the Frequency Domain. <i>Energies</i> , 2019, 12, 4595.	1.6	3
24	Uncoated medium density expanded cork boards for building façades and roofs: Mechanical, hygrothermal and durability characterization. <i>Construction and Building Materials</i> , 2019, 200, 447-464.	3.2	21
25	ENERGY AND SUSTAINABLE PERFORMANCE OF A MULTIFUNCTIONAL FAÇADE. <i>WIT Transactions on Ecology and the Environment</i> , 2019, , .	0.0	3
26	A simplified method to select combined Energy systems. <i>International Journal of Energy Production and Management</i> , 2019, 4, 311-319.	1.9	0
27	A sensitivity analysis of a cost optimality study on the energy retrofit of a single-family reference building in Portugal. <i>Energy Efficiency</i> , 2018, 11, 1411-1432.	1.3	11
28	Influence of a period of wet weather on the heat transfer across a wall covered with uncoated medium density expanded cork. <i>Energy and Buildings</i> , 2018, 165, 118-131.	3.1	20
29	Heat transfer measurements of a linear thermal bridge in a wooden building corner. <i>Energy and Buildings</i> , 2018, 158, 194-208.	3.1	12
30	Conception and design of a sustainable green roof for car parks with integrated solar tracking photovoltaic system. , 2018, , .		2
31	Simulation of heat and moisture flow through walls covered with uncoated medium density expanded cork. <i>Building and Environment</i> , 2018, 142, 195-210.	3.0	11
32	Heat transfer modeling using analytical solutions for infrared thermography applications in multilayered buildings systems. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 471-478.	2.5	11
33	Boundary element method simulation of 3D heat diffusion in defective layered media for IRT building applications. <i>Engineering Analysis With Boundary Elements</i> , 2017, 81, 44-52.	2.0	3
34	A decision support model for the optimal siting and sizing of storage units in stormwater drainage systems. <i>International Journal of Sustainable Development and Planning</i> , 2017, 12, 122-132.	0.3	6
35	Numerical and Experimental Evaluation of the Drying Behaviour of Medium Density Expanded Cork Boards used as an External Coating. <i>International Journal of Sustainable Development and Planning</i> , 2017, 12, 315-325.	0.3	5
36	Greenâ€™s Functions for Heat Conduction for Unbounded and Bounded Rectangular Spaces: Time and Frequency Domain Solutions. <i>Journal of Applied Mathematics</i> , 2016, 2016, 1-22.	0.4	2

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37	Predicting reference conditions for river bioassessment by incorporating boosted trees in the environmental filters method. <i>Ecological Indicators</i> , 2016, 69, 239-251.	2.6	15
38	A comparison between cost optimality and return on investment for energy retrofit in buildings-A real options perspective. <i>Sustainable Cities and Society</i> , 2016, 21, 12-25.	5.1	50
39	3D heat diffusion simulation using 3D and 1D heat sources – Temperature and phase contrast results for defect detection using IRT. <i>Applied Mathematical Modelling</i> , 2016, 40, 1576-1587.	2.2	7
40	Comparative Life-Cycle Analysis of Insulation Materials in A Dwelling, Addressing Alternative Heating Systems and Life Spans. <i>Journal of Clean Energy Technologies</i> , 2016, 4, 462-465.	0.1	5
41	Study of experimental parameters for IRT applications in building elements using multi-layered analytical solutions. , 2015, , .		0
42	Thermographic inspection of external thermal insulation systems with mechanical fixing. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
43	Dynamic simulation of three-dimensional heat conduction through cylindrical inclusions using a BEM model formulated in the frequency domain. <i>Applied Mathematics and Computation</i> , 2015, 261, 397-407.	1.4	6
44	In-Situ Thermal Resistance Evaluation of Walls Using an Iterative Dynamic Model. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 67, 33-51.	1.2	8
45	Energy retrofit of historic buildings: Environmental assessment of cost-optimal solutions. <i>Journal of Building Engineering</i> , 2015, 4, 167-176.	1.6	76
46	Thermal delay provided by floors containing layers that incorporate expanded cork granule waste. <i>Energy and Buildings</i> , 2014, 68, 611-619.	3.1	16
47	Iterative simulation of 3D heat diffusion in a medium with multiple cracks. <i>Engineering Analysis With Boundary Elements</i> , 2014, 41, 10-17.	2.0	1
48	Active and passive thermography evaluations of bonding defects in adhered ceramic tiling: experimental assessment. , 2014, , .		3
49	Active thermography evaluation of bonding defects in adhered ceramic tiling: thermal stimulation conditions and data analysis methods assessment. , 2014, , .		1
50	Simulation of 3D heat diffusion in multilayered construction systems for active IRT data analysis. , 2014, , .		3
51	Laboratory thermal transmittance assessments of homogeneous building elements using infrared thermography. , 2014, , .		4
52	Contribution of linear thermal bridges to the overall thermal performance of the building envelope: dynamic analysis. <i>WIT Transactions on the Built Environment</i> , 2014, , .	0.0	0
53	Influence of material properties and boundary conditions on the dynamic thermal behaviour of a building corner. <i>WIT Transactions on the Built Environment</i> , 2014, , .	0.0	0
54	Application of 3D heat diffusion to detect embedded 3D empty cracks. <i>Applied Thermal Engineering</i> , 2013, 61, 596-605.	3.0	6

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55	Closed Form Integration of Singular and Hypersingular Integrals in 3D BEM Formulations for Heat Conduction. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-21.	0.6	8
56	Thermal delay simulation in multilayer systems using analytical solutions. <i>Energy and Buildings</i> , 2012, 49, 631-639.	3.1	21
57	Experimental validation of a frequency domain BEM model to study 2D and 3D heat transfer by conduction. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 1686-1698.	2.0	10
58	Ground contact heat losses: Simplified calculation method for residential buildings. <i>Energy</i> , 2012, 48, 66-73.	4.5	9
59	Experimental Validation of Numerical Solutions Using the Explicit Green's Approach to Simulate Transient Heat Conduction in Multilayer Systems. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 61, 651-668.	1.2	3
60	3D transient heat conduction in multilayer systems – Experimental validation of semi-analytical solution. <i>International Journal of Thermal Sciences</i> , 2012, 57, 192-203.	2.6	21
61	Transient heat conduction under nonzero initial conditions: A solution using the boundary element method in the frequency domain. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 562-567.	2.0	20
62	Evaluation of adhesive bonding of ceramic tiles using active thermography. , 2012, , .		6
63	Three-dimensional boundary element method model in the frequency domain for simulating dynamic heat conduction. <i>WIT Transactions on Engineering Sciences</i> , 2012, , .	0.0	0
64	Dynamic simulation of heat conduction using a BEM model in the frequency domain: an experimental validation. , 2012, , .		0
65	Application of 3D heat diffusion to detect embedded empty cracks. , 2012, , .		0
66	A Boundary Meshless Method for Solving Heat Transfer Problems Using the Fourier Transform. <i>Advances in Applied Mathematics and Mechanics</i> , 2011, 3, 572-585.	0.7	13
67	Simulation of dynamic linear thermal bridges using a boundary element method model in the frequency domain. <i>Energy and Buildings</i> , 2011, 43, 3685-3695.	3.1	37
68	Impact de la variabilité non-mesurée des précipitations sur les débits en hydrologie urbaine : un cas d'étude dans le cadre multifractal. <i>Houille Blanche</i> , 2011, 97, 37-42.	0.3	2
69	Experimental validation of analytical solutions for a transient heat conduction problem. <i>WIT Transactions on Modelling and Simulation</i> , 2011, , .	0.0	1
70	Coupling BEM/TBEM and MFS for the simulation of transient conduction heat transfer. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 84, 179-213.	1.5	4
71	Coupling the BEM/TBEM and the MFS for the numerical simulation of acoustic wave propagation and transient conduction heat transfer. <i>WIT Transactions on Modelling and Simulation</i> , 2010, , .	0.0	0
72	Conduction and convection phenomena through a slab with thermal heterogeneities. <i>Applied Mathematical Modelling</i> , 2007, 31, 1444-1459.	2.2	7

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73	Three-dimensional fundamental solutions for transient heat transfer by conduction in an unbounded medium, half-space, slab and layered media. <i>Engineering Analysis With Boundary Elements</i> , 2006, 30, 338-349.	2.0	31
74	Transient conduction and convection heat transfer across a multi-layer floor subjected to multiple heat sources. <i>Building and Environment</i> , 2006, 41, 1299-1310.	3.0	16
75	Conduction heat transfer with nonzero initial conditions using the Boundary Element Method in the frequency domain. <i>WIT Transactions on Modelling and Simulation</i> , 2006, , .	0.0	0
76	Fundamental solutions for transient heat transfer by conduction and convection in an unbounded, half-space, slab and layered media in the frequency domain. <i>Engineering Analysis With Boundary Elements</i> , 2005, 29, 1130-1142.	2.0	22
77	Boundary element method analyses of transient heat conduction in an unbounded solid layer containing inclusions. <i>Computational Mechanics</i> , 2004, 34, 99.	2.2	10
78	Study of transient heat conduction in 2.5D domains using the boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 593-606.	2.0	16
79	Heat conduction across double brick walls via BEM. <i>Building and Environment</i> , 2004, 39, 51-58.	3.0	17
80	Response of clamped structural slabs subjected to a dynamic point load via BEM. <i>Engineering Structures</i> , 2003, 25, 293-301.	2.6	2
81	Steady-state moisture diffusion in curved walls, in the absence of condensate flow, via the BEM: a practical Civil Engineering approach (Glaser method). <i>Building and Environment</i> , 2003, 38, 677-688.	3.0	8
82	Definition of two-dimensional condensation via BEM, using the Glaser method approach. <i>Engineering Analysis With Boundary Elements</i> , 2002, 26, 527-536.	2.0	3
83	Numerical applications for experimental IRT in defective multilayered building systems. , 0, , .		1
84	3D heat diffusion modeling in defected multilayered media for IRT applications in building elements. , 0, , .		0
85	Experimental IRT applications in building elements with 3D thin defects. , 0, , .		0